ing seeds in and for starting cuttings. Old flats should be put in order for Clean seed pans. Get in a supply of loam, sand and fertilizing materials for early sowing and potting side. Cuttings for next season's bedding plants should be made in the conservatory and greenhouse.

Make plans now for next season's work. Arrange for fertilizers to be ap-woodchucks every year, twenty-five dog to carry infection, and the Departplied before the ground is spaded or or more, and still we cannot see ploughed. Study the matter of a rotation and succession of crops.

next season's flower garden. Add as many new varieties as possible, making a complete change in the beds of annuals.

Tomatoes under glass must be kept well trained and properly pollenated.

Melons under glass should be ripened under dry conditions of even tempera

Cress and mustard can be sown every week in the greenhouse or hotfor a succession of greens.

greenhouse.

Cuttings can be made now of the previous summer's growth of spiræas snowballs, lilics, weigelas, hardy roses, privet, willows and many other shrubs and trees. Tie the cuttings in small bundles and keep them in a moist cellar buried in sand or soil As soon as the ground can be worked

have six to eight main branches, while and three to four of the main branches branches of the current season's gresses, with good loam. Walls growth to take their place. All other be laid without mortar if care is exer-young canes and all canes bent to cised in building them. or near the ground should also be

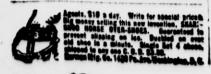
and not supported by stakes or treffis servatory. The dwarf trees in pots the ends should be cut back. If cut grow from two feet to thirty inches back to a height of three feet the high, and two-year-old plants will canes should be able to support their fruit the first or second year.

erosion caused during heavy rains, there are 151 paid employees. where the holes are on hillsides, results in great damage, often difficult | Strawberry beds, except in the South | Department of Agriculture requires within range of them with a gun.

on against ground squirrels, gophers, be returned to the space between the sage made by a farmer and peddled rabbits, moles, mountain beavers, pine rows and left until after picking sea- by him in the neighborhood. In Wismice, crawtish, wolves and coyotes What a relief it would be to farmers

## **HAY FOR SALE**

CABBAGE STRAW Patrons' Co-Operative Association of Cayuga County, Inc. 22 North St., Auburn, N. Y.



woodchuck is apt to be a destructive application. creature in a newly planted orchard. On a farm recently purchased we have eases break out among children or planted an apple orchard on the side the worm parasites develop it is well informed of until the animals began

Some of the farmers of Pike county, Make selections of new plants for Pa., eat woodchucks and say they make an excellent potple. Wood-chucks subsist entirely upon vegetables and there seems to be no rea-

### WALL GARDENING.

walls. Usually in the country walls are made of the stones picked up to clear the land and in piling them up in walls two objects are accomplished -a substitute is provided for a fence potatoes for seed use, but not for and the stones are disposed of. Very Mushroom spawn can be planted in often these dry laid walls get in grees. erly laid in cement or mortar, stone

Where ringworm or other skin dis-

hill. This side hill has been the to determine whether a dirty or unrendezvous for woodchucks for the cared for dog or cat may not be carrypast generations, a fact we were not ing the infection on the skip or hair. This bulletin does not include the their depredations. We have killed cat, but we know from experience that the cut is quite as likely as the or more, and still we cannot see that ment will do well to warn parents

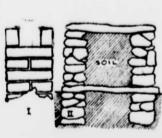
also to be careful of cats that are fon-

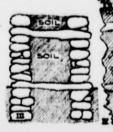
After the stems of poinsettias are cut the end is seared with a hot iron, This prevents the loss of the milky juice, which otherwise would be lost son why they should not make good causing it to quickly wilt. They are packed and shipped long distances

Potassium permanganate at the rate Every one is familiar with stone will prolong the freshness of cut

> Potatoes are best kept in storage at a temperature of 33 degrees to 36 degrees. Thirty-two degrees will spoil ing. Apples keep best at 34 to 36 de-

A ripe, raw apple is digested in walls can be made very ornamental eighty-five minutes. The malic acid







the premises.

The premises.

The premises.

The premises.

The dilease where the barn during the will and gooseberries are seed in the branches are drawn to garden will be obtained by large regions for next epring's grafting groups be presented and gooseberry bushes and the disconting plants and gooseberry bushes are seed of the premises.

The animals in order that they may be in the best possible condition for the animals in order that they may be in the best possible condition for work in the early spring.

Little sawdust piles at the base of the symbol of the barn during the winter on a liberal wire.

Little sawdust piles at the base of the many bargains that tell you that these one deliar birds are brief with themers, and all such misleading facts, and then send your money somewhere else. As long as these worn out unmated birds upon the barn during the winter on a liberal wire.

Little sawdust piles at the base of the many bargains that tell you that these one deliar birds are brief to prevent the work in the early spring.

Horses should not be commoner poultry praisties and liberal served with themers, and all such misleading facts, and then send your money somewhere else. As long as these worn out unmated birds upon the barn during the winter on a liberal worn. It is far better to rough" then through the cold months, the cold months of the provided with a protected should not be commoner poultry praisties and live work in the world and also the developtions of the commoner poultry praisties and birds in order that they may be not the world on all sends and the world of demestic birds from their wild are effered in birds, advertisements of the many bargains that tell you that these one deliar between the world of demestics. The following facts, and then send your money somewhere else. As long as these worn out unmated birds in order that they may be not may be not the world on sprains that tell you that these one deliar to the stant the world of demestics of the commoner poultry may be not with the series

may be pruned before growth starts are the spring. Current bushes should screen the compost and rubbish heap. A trench a foot or two deep and about two feet wide must be made for the the goseberry should have eight to twelve. None of the branches should be over three years old. Two or three be over three years old. Two or three be straight or the sides slanting be straight or the sides slanting of the gooseberry should be removed will serve as binding stones to make branches, leaving the most vigorous should be filled, as the building pro- tree.

mouths of their excavations will be There are 147.327 volunteer crop reeight or ten feet in circumference and porters now aiding the Bureau of Cropsky or eight feet deep. There are al- Estimates of the United States Deways two or more entrances and the partment of Agriculture. In addition

and expensive to remedy. Warren and far West, should be covered with all cooked pork products sold in escounty, New Jersey, is fairly alive with a mulch to protect the plants from Any summer's day freezing and thawing and to conserve meat inspection to be subjected to zens of them can be seen on the moisture and keep down the weeds the hillsides. They are wonderfully know- following spring and during the fruiting creatures and it is difficult to get ing season, and also to keep the ber- throughout all portions of the meat All of northern New Jersey, it would ries clean until they are picked.

The mulch should be of straw, hay seem, is entitled to relief and the as- or marsh hay, placed on the berry higher than 5° F, for twenty days the sistance of the Bureau of Biological patch after the ground freezes and Survey. No doubt sections of Penn- before it is covered with snow. The sylvania and parts of New York would depth should be two on three inches to cook it until it has lost its red after the mulch has settled. In the color throughout all portions, or if a The extermination of prairie dogs spring before the plants begin to grow trace of this color is still present, at has been practically completed and sufficient straw should be removed least until the fluids of the meat have wide stretches of grazing land have from the rows into the space between been cleared of this troublesome little the rows to allow the plants to grow animal, and active campaigns are still through the mulch. Where the ground tion are raw sausages and raw ham.

In process in Arizona, New Mexico, is weedy the mulch should be raked. In November, 1911, in California in progress in Arizona, New Mexico, is weedy the mulch should be raked In the West work is being carried cultivated. The mulch should then death resulting from summer sau

not be allowed to dry out and it will not do to keep it wet.

of the main branches of the current toward the centre. Stones running eneach season, cutting out the older the whole perfectly secure. The cavity no good, but boring into it injures the tection from this quarter.

If the canes of raspberries are long and grown as a pot plant in the con- they require years to reach a salable

or smoked sausages and hams, should be eaten. All pork should be therughly cooked before it is used. If this is done the wholesome-ness of the meat for food purposes is not impaired by the fact that the parasites were present in it. The tablishments operating under Federal a temperature of 140° F. and cooked sufficiently to destroy the triching It has also been found that if pork is subjected to a temperature not

trichinaæ are destroyed. A practical rule for cooking pork is

become more or less jellied.

cently I have not known that the culture, which can be had free on ed progress is being made by this process, in reducing these destructive

> A member of the Wisconsin State Legislature proposes a plan to run two hundred rows of pine trees, due east and west, across the State, some 200 miles in length. He wants the State Forestry Department to grow and plant the trees without expense to the farmers across whose property they extend, so as to fringe the north side of every east and west highway and continuing across the fields where there is no highway. The idea is to protect roads and keep them open in winter. "They would," the author of the idea suggests, "pay for their cost in a few years in the saving of fuel provide homes for thousands of birds in winter and would make for better health because of their invigorating

Ditching ploughs for use in land draining can be purchased from \$18 to \$6,000. A ditching plough is useful n laying tile drains. If as much as 1,500 rods of tile drain are to be laid the land owner will be justified in purchasing a horse drawn plough at \$250 to \$300, provided the soil is free from rocks and large roots. The installation of 5,000 rods of drain tile will justify the purchase of a power driven trenching machine for \$1,500, provided the machine can subse-quently be sold for half its original

A two horse corn binder will cut about five times as much corn in a day as a good workman cutting by hand.

harth in which they are buried must not be allowed to dry out and it will not do to keep it wet.

Agents are travelling about offering emedies to be poured into holes bored in a cold winds. Winter winds come mostly from the porth and porthers.

Assuming that you have obtained the decisions rendered by its judges are the last word in denoting the rank of company to the cold winds. Winter guarantee upon every pair of Charles D. Cleveland.

The breeders of poultry and pigeons of America look up to the Garden Poultry Show as a court of appeals and the decisions rendered by its judges are the last word in denoting the rank of company to the development of peting specimens of various breeds.

Among the annual meetings of breeds.

production.

reduction, 237,009,000 bushels; value, them be be themselves. \$122,499,000. Rye-Yield, 17.2; price, .839; total production, 49,190,000 bushels; value, \$41,295,000

Buckwheat-Yield, 19.6; price, .787;

### MONEY CAN BE MADE GARDEN POULTRY IN PIGEON BUSINESS

Many Breeders Pick Up Good Profits as a Result of Work and Care.

CHEAP BIRDS WORTHLESS

By WILLIAM D. RICE.

The pigeon business is no different from any other. Failure after failure follows mercantile effort. Failure comes to the man who attempts industrial enerprise; failure comes to the proessional man who doesn't know how, who fails to get the right start, Nothing succeeds like success, and

success never just happens. Cut out the lucky theory. Every result is brought about by conditions, and conditions are what you make them. The pigeon business is a fever. It at-

tacks one like a germ and is hard to get out of the system. When the fever strikes you there is but one of two things

Scions for next spring's grafting should be given the run of the should be given the run of the should be cut now. Take them from the tips of the limbs and bury them in sand or earth in the cellar. The earth in which they are buried must not be allowed to dry out and it will be provided with a protected the horse with a heavy coat of half during the day. This should be provided with provided with provided with bedding. While nature does her part and protects the horse with a heavy coat of half during the day. This should be provided with a protected with squabs.

Buy Homers. There are none better. They are vigorous, healthy birds, and allowed the trun of the market with squabs.

Buy Homers. There are none better. They are vigorous, healthy birds, and allowed the sale factory. Charles D. Cleveland. Shelter Island, N. Y., and Secretary and superintendent, written guarantee upon every pair of birds, and mark you, when he will not be compared to dry out and it will be provided with a protected with a protected with a protected birds, and mark twith squabs.

Buy Homers. There are none better. They are vigorous, healthy birds, and allowed the provided with bedding. While nature does her part and protects the horse with a heavy coat of half during the day. This should be provided with a protected ways give results that are satisfactory. Charles D. Cleveland, Shelter Island, N. Y., and Secretary and superintendent, written guarantee upon every pair of birds, and mark twith squabs.

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The

Winter Wheat—Yield, 16.2: price, 1.95; total production, 655,045,000 bushels; value, \$622,012,000.

Spring Wheat—Yield, 18.3; price, 1.865; total production, 356,460,600 bushels; value, \$308,290,000.

Oats—Yield, 27.8; price, 201, 100 be able to get them for \$1 on the production of the price of the price

Oats—Yield, 37.8; price, .361; total production, 1.549.362.000 bushels; value, \$555.569.000.

Barley—Yield, 32; price, .517; total production, 237,009,000 bushels; value, \$129.499.000 Two can eatch a pair of birds mating up easier than one. Always catch the cock bird first, then the hen bird. Let one keep his eye on the cock bird and the other on the hen bird. By do-

total production, 15.769,000 bushels; ing this you will not make a mistake in to entomologists at the New York State Flaxseed-Yield, 10.1; price, \$1.74; always band the cock bird on the left College of Agriculture at Cornell Uni-Flaxseed—Yield, 10.1: price, \$1.74; total production, 13.845.000 bushels; value, \$24.080,000.

Rice—Yield, 36.1: price, .906; total production, 28.947.000 bushels; value, \$25.212.000.

Potatoes—Yield, .955; price, .616; total production, 359.103.000 bushels; value, \$221.104.000.

Sweet Potatoes—Yield, 103.3: price, .616; total production, 28.947.000 bushels; value, \$221.104.000.

The writer knows of many breeders in the left on the right leg.

During the last eighteen months prices of grain have soared to such a high figure that it is almost impossible to pay feed bills. Many have been forced to sell their squabs at a great sacrifice; they could not afford to carry them over through the winter months owing to the price of grains and because there is little demand for squabs.

The writer knows of many breeders in the price of Agriculture at Cornell Unity or six to sell their squabs a high figure that it is almost impossible to pay feed bills. Many have been forced to sell their squabs at a great sacrifice; though the experts say they are always infested. Some of these cause serious being the price of grains and because there is little demand for squabs.

The writer knows of many breeders in the right leg.

College of Agriculture at Cornell Unity or six to write.

In November, 1911. In California upon the rows of plants and the field cultivated. The mutile should them is, be returned to the space between the space made by a farmer and peddied rows and left until after picking season of the space between the country a doc that always stays at home and is properly cared for it useful.

The dog that roams at large are and its properly cared for it useful.

The dog that roams at large is a carried of disease. The dog which runs across a farm where there is foot and mouth disease may castly carry in the dirt on his feet the vitue.

More than twelve million specimens of two different parasites which prey on the speay most and thousand the speak of two different parasites which prey are carried by dogs, including ring-worm, tapeworm and others, often carried by dogs, including ring-worm. Lapsworm and others, often carried by dogs, including ring-worm, tapeworm and others, often carried by dogs, including ring-worm. Lapsworm and others, often carried by dogs, including ring-worm, tapeworm and others, often carried by dogs, including ring-worm. Lapsworm and others, often carried by dogs, including ring-worm, tapeworm and others, often carried by dogs, including ring-worm, tapeworm and others, often carried by dogs, including ring-worm. Lapsworm and others, often carried by dogs, including ring-worm, tapeworm and others, often carried by dogs, including ring-worm. Lapsworm and others, often carried by dogs, including ring-worm, tapeworm and others, often carried by dogs, including ring-worm. Lapsworm and others, often carried by dogs, including ring-worm. Lapsworm and others, often carried by dogs, including ring-worm, tapeworm and others, often carried by dogs, including ring-worm. Lapsworm and others, often carried by dogs, including ring-worm, tapeworm and others, often carried by dogs, including ring-worm. Lapsworm and others, often carried by dogs, including ring-worm, tapeworm and others, often carried by dogs, including ring-worm, tapeworm and others, often carried by dogs,

## SHOW NEXT FRIDAY

Twenty-seventh Annual Exhibition Open Daily Until Following Wednesday.

The doors of Madison Square Garden will be thrown open at 9 o'clock next Friday morning, December 31, for the twenty-seventh annual exhibition of the New York Poultry and Pigeon Association, Limited. The exhibition will be open to the public from 9 A. M. to 10:30 P. M. Friday, Saturday, Sunday, Monday, Tuesday and Wednesday, closing on the night of January 5.

This year's show will be restricted rigidly to standard breeds of poultry and pigeons, with the one exception of rare wild and ornamental birds as an added attraction. Besides the living speclmens there will be an interesting array of commercial exhibits which will include everything that the poultry breeder wants, from a sanitary drinking fountain to a hen house.

strikes you there is but one of two things to do. Either get it wholly out of your system and talk pigs to keep your mind off pigeons, or surrender to the fever, treat the case seriously and make the condition a healthy one.

How much are you about to put into the business? That is your starting point, and the entire enterprise must succeed or fail based upon the investment.

The Madison Square Garden Poultry Show has been the pioneer of many innovations and its best is the invaluable educational programme instituted by the present secretary-superintendent, Charles D. Cleveland, when he assumed the management of the show three years ago. ment.

Assemble your plant according to the capital. The houses must be equipped properly, and if the investment is not great enough for large houses then the complete plant must be a small one. Locations are a matter of importance, but that can be decided without endanged for those who would scientifically and seeing your purse.

The education purveyed at this school in the Concert Hall of the Garden ranges from primary instruction to phases that could only be likened to a post-graduate course of the poultry division of an agricultural college. This year the leading features of this six days of schooling for those who would scientifically and economically raise poultry is an exten-Having the plant there arises the most important problem that will confront you birds. Do you know that there are no bargain counters for pigeons? None. The \$1 a role birds. know that there are no bargain counters have that there are no bargain counters for pigeons? None. The \$1 a pair birds port many things of interest from the for pigeons? None that you can experiment station at Beltsville, Md. By As soon as the ground can be worked in the spring, make a nursery bed by in the spring, make a nursery bed by carefully spading and pulverising the soft, pianting the cuttings in rows in this bed. The cuttings in rows or four buds above ground, having three or four buds above ground, having three or four buds above ground, having three or four buds above ground, having the cuttings should be afterned to a four proper protection. If the value of the services of the bird was appreciated not a farmer or gardener in the country would galants. IV. Side view of III. when planted.

If the value of the services of the bird was appreciated not a farmer or gardener in the country would shoot as bird or permit one to be shot on a strategic and proper care should be taken of the plants. IV. Tailing plants can be bird or permit one to be shot on the plants of the proper in the country would shoot as the possible condition for plants in the world and also the test possible condition for plants in the world and also the test possible condition for the that the sone dealts from the experiment station at the most expensive that you can be proported addition of the experiment station and place. The cuttings should be and the two care that they would should be and the two cuttings should be as economical as possible, and in the world and also the test from the experiment station and place the experiment station and place the experiment station and place the speciment station and the world in the most expensive that you can the particular that the speciment station and place the speciment station and the world in the speciment station and

be straight or the sides signifing to the sides signifing to the sides signifing to the sides signifing to the sides significant to the sides sign THOROUGHLY COOKED.

The coal position of cotton is may be necessary to cut them lack to two and a half feet in engagli.

When five pass are closed the composition of the passion of the p

### FOWLS ARE TROUBLED BY MANY PARASITES

Keeping Birds Clean Is Best Way to Offend the Host of Unwelcome Visitors.

cock bird several species of mites, and at least two



**BUCKEYE INCUBATORS** 

The Standard Colony Brooder

hundred chicks and burns hard coal or gas. Store is absolutely gas proof.

ANIMALS, CATS, DOGS, GAME, BIRDS AND FISH Expert poultrymen at our exhibit at the show

Leave your name and address with us for our new Poultry Catalog

William Bartels Company

Hudson Terminal Bldg.

and the increase of these parasites is filth. This statement is not only the result of common observation but of ex periments in control measures made by the college experts. Fifth as here used includes decaying and decayed eggs, and bits of decayed matter of all kinds. The poultry house and the nests should be always kept clean and there should be ample provision for light and air. Poul-try parasites, like most other pests, thrive much better and increase much more rapidly in dim than in well lighted places. If a poultry house is infested with mites and is too valuable to be burned down and rebuilt, it may be

## IN LAYING CONTEST

sast four weeks.

Rhode Island Red No. 456, owned by P. D. Clark, Berlin, Conn., has been recorded as the first bird to go broody.

A little later in the season all the heavier breeds are likely to lay less eggs on this account. On the other hand they are not in general expected to exhibit their maternal instinct at this season,

The office of markets, Penastment of Agriculture, says

### Our Latest Model

MADISON SOUARE POULT. Y SHOW

CONKEY SAYS:-DON'T WORRY-CONKEY'S POULTRY
TONIC helps your hens pay their way
Contains no cayenne perper or filler-jus
pure, active, helpful medicines. Get



OF THE **NEW YORK SUNDAY SUN** THIS bureau acts as "Central" to connect buyer and seller. It tells you how, when and where to buy stock, supplies, baby ohicks, eggs for hatching, so.

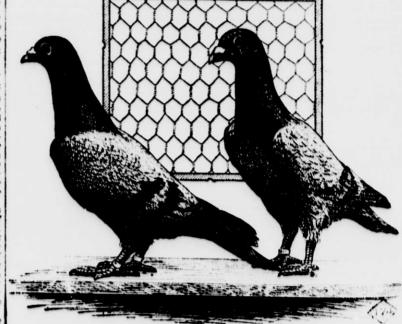
Timely news of the poultry world, special articles of interest, &c., will be found in The Sunday Sun.

Helpful hints by an experimentary man about breeds adapted to your wants and ways of securing best esuits. Personal replies to every inquiry. No charge to either party for this service. Address

their maternal instinct at this season, particularly when the prevailing price of eggs is considered.

The first five pens:

The first five pens:



# POULTRY DIRECTORY

### New York's Largest Live Stock Dealer & Poultry Supply House The standard hot water incubator and guaranteed to hatch every hatchable egg. A successful record of 25 years is behind the Buckeye and each incubator has a 5-year guar.

THE SANITARY HOVER

Price \$15.00 \



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